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SUBCLASS

APPROVED O.G. FIG.

CLASS

DRAFTSMAN ĕ

pSPORT-Ine BamHI EcoRV |EcoRV | SstI EcoRV |EcoRV |

Sphī

BamHI

Spel

HindIII BamHI

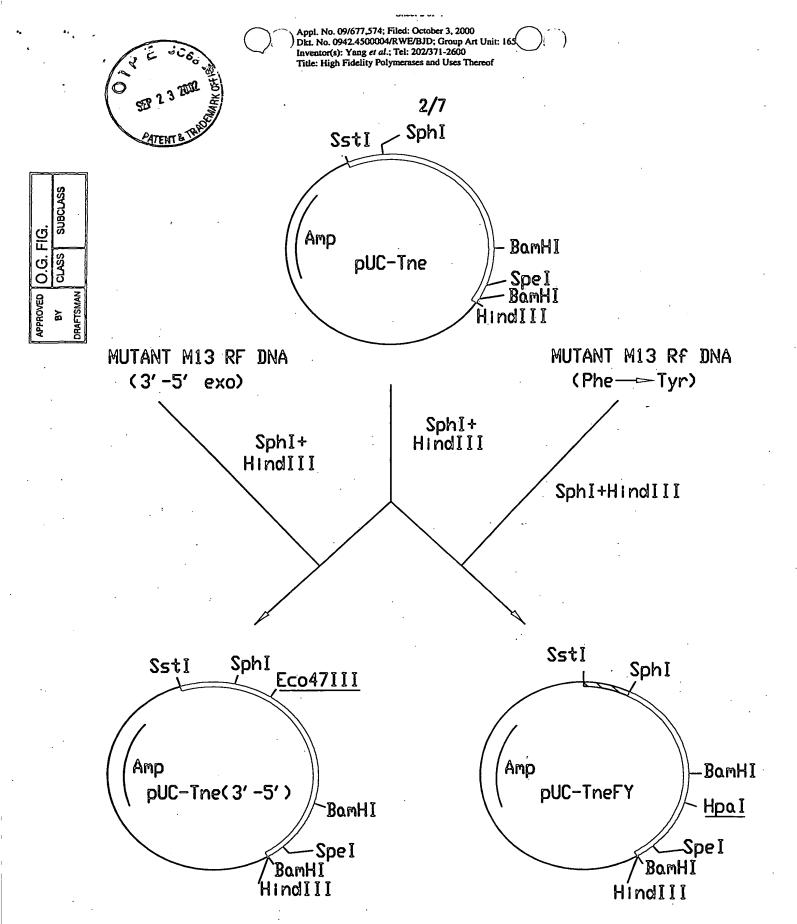
Sphi

Spel BamHI

HindIII BamHI

The POLYMERASE

THE REGION CONTAINS THE O-HELIX HOMOLOGOUS SEQUENCES.



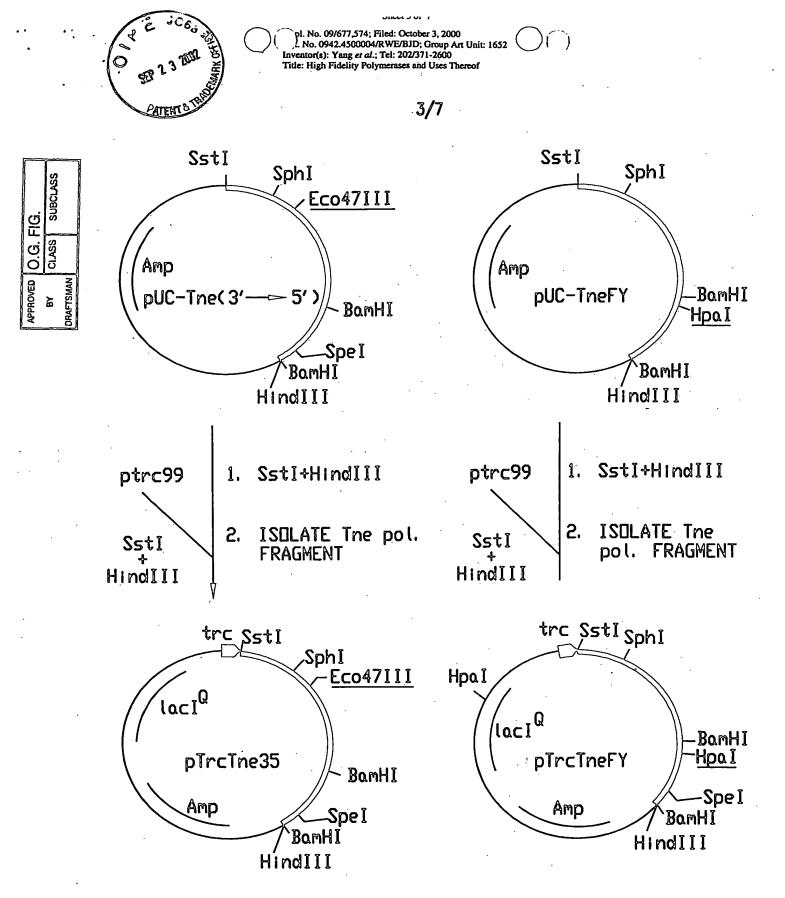
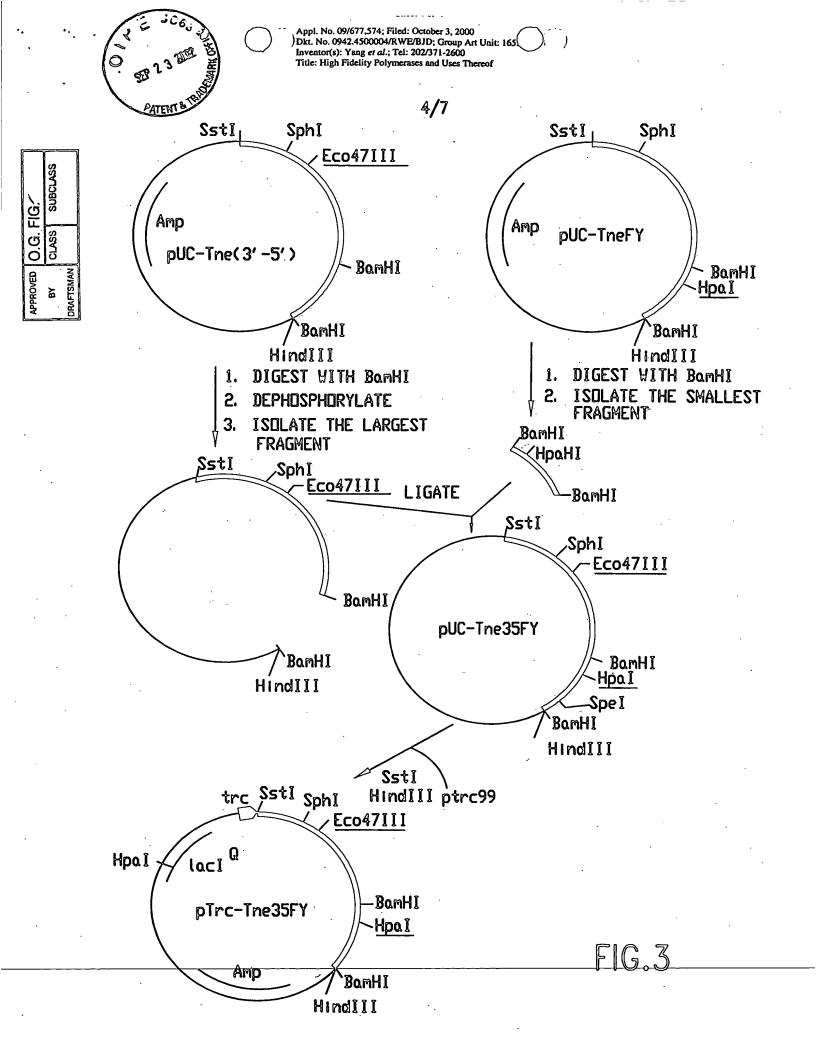
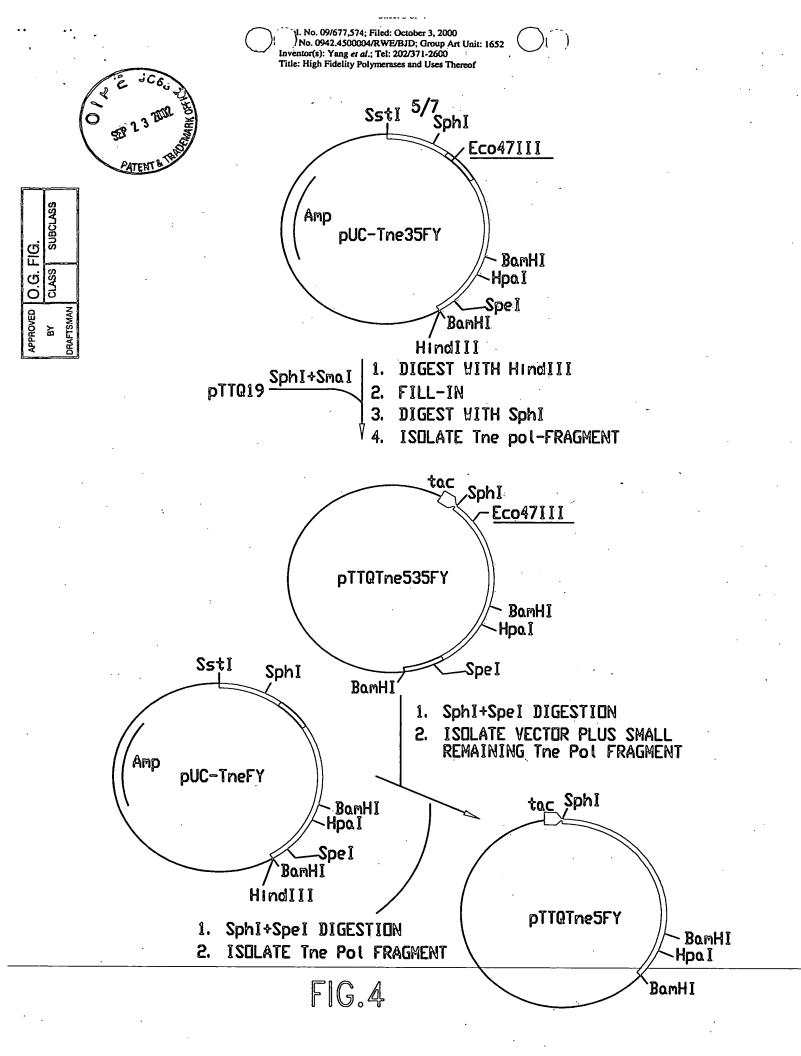


FIG.2B







C1 C2 1

Appl. No. 09/677,574; Filed: October 3, 2000 kt. No. 0942,4500004/RWE/BJD; Group Art Unit: 1652 inventor(s): Yang et al.; Tel: 202/371-2600 Title: High Fidelity Polymerases and Uses Thereof

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APPROVED O.G. FIG.

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* CAAGGT + dGTP, dCTP, ddATP + dGTP, TTP, ddATP

C1 Primer alone
C2 Reaction with dGTP, dCTP, TTP, ddATP and Tne DNA Polymerase (D137A, D323A, F730Y)
1,2:9,10 Taq DNA Polymerase
3,4:11,12 Tne DNA Polymerase (D137A, D323A)
5,6:13,14 Tne DNA Polymerase (D137A, D323A, R722Y)
7,8:15,16 Tne DNA Polymerase (D137A, D323A, R722L)

9 10 11 12 13 14 15 16

ppl. No. 09/677,574; Filed: October 3, 2000 kt. No. 0942,4500004/RWE/BJD; Group Art Unit: 1652 inventor(s): Yang et al.; Tel: 202/371-2600 Title: High Fidelity Polymerases and Uses Thereof



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PPROVED O.G. FIG.

BY CLASS SUBCLASS

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Figure 6

